

Title (en)

A rotor arrangement for a gas turbine

Title (de)

Rotoranordnung für eine Gasturbine

Title (fr)

Agencement de rotor pour turbine à gaz

Publication

EP 2236748 A3 20130220 (EN)

Application

EP 10250348 A 20100226

Priority

GB 0905548 A 20090401

Abstract (en)

[origin: EP2236748A2] With highly loaded rotors and stators problems can occur with secondary flows sweeping low momentum fluid across the blades reducing efficiency. By provision of collector slots 35 to collect the secondary air and direct that air to a return slot 37 in a rotor hub 32 it is possible to provide impetus to the collected secondary flow C to an outlet slot 36 such that there is dispersal of the secondary flow C and therefore reduce the effects upon the overall performance of a gas turbine engine incorporating the arrangement.

IPC 8 full level

F01D 5/14 (2006.01)

CPC (source: EP US)

F01D 5/145 (2013.01 - EP US); **F05D 2250/314** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP US)

Citation (search report)

- [A] GB 678085 A 19520827 - ROLLS ROYCE
- [A] US 2291828 A 19420804 - NEW WINSTON R
- [A] US 5950308 A 19990914 - KOFF STEVEN G [US], et al
- [A] GB 2165007 A 19860403 - ROLLS ROYCE

Cited by

DE102015224259A1; US8864452B2; WO2013009449A1; EP3246521A1; EP3517736A1; US10655483B2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2236748 A2 20101006; **EP 2236748 A3 20130220**; **EP 2236748 B1 20140129**; GB 0905548 D0 20090513; US 2010254802 A1 20101007; US 8282341 B2 20121009

DOCDB simple family (application)

EP 10250348 A 20100226; GB 0905548 A 20090401; US 71285310 A 20100225